

14'

face along top

wall. "B"= 9"

Total 6-#6

STIFFENING BEAM DIMENSIONS AND REINFORCING

"A"= 1'-0"

Total 6-#7

30' 35'

"B"= 1'-0"

Total 6-#8 "B"= 1'-6"

Total 8-#9

"Δ"= 1'-6"

18' 20'

16'

No beam. Place 2-#6 in each

WARPED WINGWALLS

10'

12'

14'

16′

18′

20'

#7 @ 6

#4 @ 12

#4 @ 6

#5 @ 8

#4 @ 12

#7 @ 6

11"

Elev "a"

#4 @ 18-

Const joint-

Elev

55

Element

Slope

1/4:1

11/4:1

"D" at Cutoff Wall

"D" at Culvert

Front face Reinf

Rear face Reinf

Front face Reinf

Rear face Reinf

Front face Reinf

Rear face Reinf

1_2'-0"

or less

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 8

#4 @ 7

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 8

6"

Extend culvert invert slab,

WALL DIMENSIONS AND REINFORCING

#5 @ 7

#4 @ 12

#4 @ 12

#4 @ 12

#4 @ 5

6"

NOTES: Walls designed for 2'surcharge; earth density = 120 LB/CF; equivalent fluid pressure = 36 LB/CF.

#5 @ 5

#4 @ 12

#4 @ 12

#4 @ 10

#4 @ 12

#5 @ 6

71/2"

Vary "D" of warped wall uniformly from that at cutoff wall to that at cutvert, for maximum "H" > 12'-0". Where abrasion is anticipated increase apron thickness to 7" minimum to provide 2" minimum reinforcement coverage. Dimensions "L", "W", "M", "W", "N", Elevation "a", " Angle of flare", and end "Slope" (as apply) are shown on the plans.

#6 @ 6

#4 @ 12

#4 @ 10

#4 @ 7

#4 @ 12

#6 @ 7

91/2

#7 @ 7

#4 @ 12

#4 @ 8

#4 @ 6

#4 @ 12

#6 @ 6

91/2

11"

spacers 2'-0" into apron

- Const joint

-#4 @ 18 Max

-1'-0" Cutoff wall

"a"

DIST COUNTY

May 1, 2006

"Slope" of fill or channel

#4 @ 18, Str back face

☐ @ 18 Front face, bend

2'-6" into wall or apron

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

BOX CULVERT

WARPED WINGWALLS

NO SCALE

D86A

3-#9 /7

PLANS APPROVAL DATE

Care Lorator REGISTERED CIVIL ENGINEER

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To get to the Caltrans web site, go to: http://www.dot.ca.gov

Parapet

(B)∼

Slope apron to match, channel and invert POST MILES SHEET TOTAL TOTAL PROJECT NO. SHEETS

Dallas Foreste

C37765

Exp. 12-31-06